

WSG Small Oil Spill Prevention Program: Synopsis of events, projects and activities: March 1, 2005 – August 31, 2006 (with added relevant activities):

Partial List of Recent Education/Outreach Audiences -

- Pacific Oil Spill Prevention Education Team
- Pacific Coast Congress of Harbormasters
- Puget Sound Action Team
- Northwest Marine Trade Association (Recreational Boaters)
- Clean Marina Partnership (DOE, DNR, NMTA, Puget Soundkeeper)
- K-12 Students
- Fishermen throughout Puget Sound and Western Washington
- WA Department of Ecology
- US Coast Guard (Sector Puget Sound/CG Auxiliary Flotillas)
- WA Sea Grant/WSU staff
- Shellfish Growers, Pacific Shellfish Institute/PCSGA
- Puget Soundkeeper Alliance
- Pacific Northwest Waterways Association
- Pacific States/BC Oil Spill Task Force
- Harbour Authority Association of BC
- Environment-Canada
- King County Metro
- Clean Marina Partnership
- Makah Tribe
- Port of Everett
- Oregon Marine Board
- Port Townsend Marina
- Port of Seattle
- Marine Resource Committees
- Port of Bremerton
- WA Department of Natural Resources
- Oregon Marine Board
- People for Puget Sound
- Port of Grays Harbor
- Oil and Marine Industry Leaders
- Port of Bellingham
- CA, OR, WA, BC, AK Marina Operators
- Swantown Marina Staff
- DesMoines Marina Staff
- Port of Olympia Staff
- Quinalt Tribe
- Hoodspout Marina owners
- Whatcom Co. and Island Co. Beachwatchers
- Tour Boat Operators

Educational Materials/Input/Research

Participated in meetings with PCSGA and PSI to develop an oil spill preparedness program for shellfish growers throughout the state of Washington. Also contributed to ensuring that small spill prevention is included in these grant-supported efforts. Completed research on options available to shellfish growers to participate in oil spill responses under existing WADOE/USCG approved regional contingency plans.

Reviewed proposed WADOE fuel transfer rules. Contacted marina operators to provide accurate information and help surface concerns. Compiled a detailed list of questions and offered comments to DOE to help clarify applicability and explain a number of other provisions within these rules. Reviewed Senate Bill 6641 and subsequent WADOE oil spill report for guidance in evaluating proposed fuel transfer rules. Provided opportunity for DOE to offer presentation to harbormasters and marina managers at semi-annual PCC Harbormaster conference, Sept. 2006.

Conducted an extensive review of Port of Bellingham current fuel transfer policies. Provided an analysis along with recommended changes that would enhance the safety of these fueling operations and comply with pending rules.

Researched applicability of oil spill regulations regarding notification and response related to use and handling of various biodiesel formulations. Discussed these issues with WA Department of Ecology.

Promoted WADOE oil spill response equipment grant program to port and marina operators throughout Washington. Several port and marina officials have indicated that this WSG contact prompted them into applying for DOE equipment support. Met with WA Department of Ecology spill prevention/response personnel in the SW and NW regional offices.

Assisted Puget Soundkeeper Alliance in the submission of Clean Marina P.I.E. grant proposal. These funds will help extend current county-limited clean water recognition program to marinas throughout Puget Sound and coastal Washington. Reviewed literature on Clean Marina Programs in Oregon, Louisiana, Texas and Florida. Received authorization to provide Clean Marina certification and technical support to marinas statewide, well beyond the 4 current EnviroStars sponsored counties.

Revised Sea Grant developed PANIC book to better reflect emergency response conditions at Pacific Northwest marinas. Restructured the Oil Spill Incident section to ensure it is reflective of regional oil spill regulations and provides for a safe and lawful response. Completed revision of oil spill response section of PANIC book and distributed over 70 CD copies, primarily to ports and marinas throughout coastal Washington.

Developing criteria for research project on the significance of small oil spills in Washington State.

Continue work on oil spill prevention distance learning program for the inclusion in on-line Marina Operations course. Currently working with UAS technical staff to enhance oil spill module that will provide a professional computer based spill prevention course module that can be distributed throughout Washington State and beyond. Potential to reach thousands of learners interested in pursuing careers in marine-related industries.

Provided Puget Sound Action Team, with information on the impacts of small oil spills affecting nearshore environments in Washington State. Reviewed 2005 – 2007 Puget Sound Conservation & Recovery Plan and PSAT Toxics in Puget Sound paper.

Refined POSPET educational materials for “Spills Aren’t Slick” spill prevention campaign. Distributed over 300 fuel spill prevention signs to marina operators and shellfish growers.

Developed “Fuel Spill Collar” for use at marine fueling facilities throughout Washington and nation. An excellent example of WSG working with industry to solve pollution problems.

Developed and distributed thousands of Oil Spill Prevention Kits to boaters and marina operators and shellfish growers. Use of these kits have been recognized by WA DNR, US Department of Wildlife and US Corps of Engineers as effective mitigating measure to permit marina expansion and submerged land lease renewals.

Workshops, Meetings and Conferences

Prepared agenda and chaired Pacific Oil Spill Prevention Education Team, POSPET, meetings. Agenda covered numerous spill prevention topics: Clean Marina program, proposed DOE fuel transfer rules, Spills Aren’t Slick campaign with in depth reports on California and other state pollution prevention programs. This involvement with POSPET assists the Pacific States/BC Oil Spill Task Force meet its goals of addressing the need to prevent small chronic oil spills. Representatives from Pacific States Oil Spill Task Force, WA Department of Natural Resources, Oregon Department of Environmental Quality, California Coastal Commission, US Coast Guard Auxiliary, WA Department of Ecology, Oregon Marine Board, Puget Soundkeeper Alliance and Pacific Shellfish Institute participated.

The products of these meetings included:

- Increased and energized membership
- A greater commitment from all POSPET members
- Clarification of potential for pursuing Clean Marina programs
- The development and realization of revised “Spills Aren’t Slick” campaign

to be launched with new signage and educational materials 2005/2006.
- Promote "1-800-OILS911" spill reporting number.

Provided onsite assessment to certify first two statewide Clean Marinas at the US Naval Station Everett and Whidbey Island Naval Station. Conducted initial Clean Marina site visits to 8 marina facilities on San Juan and Orcas Islands.

Worked with Hood Canal marina operators to develop small oil spill prevention program. Provided technical assistance that can help alleviate pollution in sensitive Hood Canal habitats.

Distribute WSG-developed *Spill Prevention Education Kits* to hundreds of fishing boat operators at Pacific Marine Expo. This annual event offers opportunity to have face-to-face discussions on small spill prevention with dozens of fishermen and other marine operators.

Offered a boater education seminar sponsored by the U.S. Coast Guard at 2005 Fish Expo. Extremely favorable feedback from hosts and participants. Also participated in Sea Grant activities to reach hundreds of fishing vessel operators with spill prevention information and spill kits. Over 75 fishermen at sessions.

Provided oil spill prevention presentation at Mount St. Helens and Port of Astoria to assist in establishing a statewide Clean Marina Program. This Oregon Marine Board sponsored workshop provided guidance for marinas to participate in Clean Marina program and provided me with valuable information and procedures for adapting this program to Washington State marinas.

Participated in vessel safety workshops at the Makah Reservation in Neah Bay. Provided over 60 fishermen with valuable information and hands-on training to prepare them to effectively deal with life threatening emergencies at sea and pollution incidents. These classes provide the opportunity to offer an oil spill prevention presentation and distribute information to often remote and elusive audiences. Held 8 workshops during period.

Participated in vessel safety workshop at Port Townsend. This was undoubtedly one of the very best 3-day workshops that WSG has offered 15-fishermen and tour boat operators were provided with valuable information and hands-on training to prepare them to effectively deal with life threatening emergencies at sea and oil spill incidents. Another unique feature of this class was that 80% of the participants were women. I also offered a more detailed oil spill prevention presentation and distributed prevention information.

Participated in 7 consecutive boating safety classes at Everett High School Opportunity to address both safety and environmental issues with high school

students that will be confronted in current marine related activities or in future vocations. Over 400 students reached.

Participated in vessel safety training for North Kitsap High School students. These two days provided lifesaving and oil spill training for over 65 students and faculty.

Chair Training & Education Committee for Pacific Coast Congress of Harbormasters. Develop agendas for semi-annual PCC conferences held in April and October to always address marina/boating pollution prevention issues.

Participated in 4 Pacific Coast Congress of Harbormaster conferences. In addition to assuming a multitude of facilitator roles, I offered pollution prevention presentations covering PANIC Book and Oil Spill Prevention at marinas and offered an overview of laws and procedures to ensure safe and effective oil spill preparedness and response operations. Reached over 300 marina operators.

Offered an oil spill prevention session to the Pacific Northwest Waterways Association at their semi-annual meeting in Oregon. This venue provided an opportunity to reach new Washington State marine audiences with spill prevention information.

Offered several pollution presentations at Harbor Authority Association of British Columbia. These sessions covered oil spill prevention and preparedness and response strategies.

Met with Port of Grays Harbor director, Gary Nelson, and port staff to discuss oil spill prevention and response strategies. Took a boat tour of port facilities and environmentally sensitive areas including exposed shellfish beds.

Offered presentation on oil spill preparedness at annual PSI/PCSGA Shellfish Conference. Arranged to have HAZWOPER training (required by OSHA for oil spill response personnel) for shellfish growers. Provided this training at no cost to WSG and WADOE staff members.

Provided oil spill prevention session at SG-sponsored Shellfish Growers' Conference in Shelton. Following this presentation Pacific Shellfish Institute contacted me for advice and input to secure a Russell Family grant for a spill prevention program aimed at shellfish growers. I later reviewed the draft grant proposal and made significant changes to refine objectives, which were then adopted into the final submission.

Participated in a PSAT meeting to discuss Toxics in Puget Sound Report and to make necessary adjustments to program priorities. Offered input to ensure that small oil spills are not overlooked as a threat to the environment.

Provided a seminar on oil spill prevention/preparedness to Whatcom County Beachwatcher students. This was a true opportunity to offer an in depth program to a group that has the initiative and background to identify pollution sources and help eliminate pollution of our marine habitats.

Presented oil spill prevention presentation to 22 harbormasters from throughout the Pacific Northwest, California and Australia at International Marina Institute advanced marina manager course. Recognized as IMI faculty.

Contributed to news article on state of oil pollution in Washington State marinas. Everett Herald.

Worked with other Northwest Marine Trade Association members to formulate mandatory boater education program that includes a pollution prevention questions. This WAME bill passed through the 2005 state legislature and was signed into law by Gov. Gregoire in April 2005.

Provided 3 workshops for 80+ Coast Guard Auxiliary personnel to introduce them to potential spill-prone operations and to provide training tools to reach thousands of boaters throughout the Puget Sound and Washington coastal waters. Held spill prevention classes:

Bremerton	25 USCG Auxiliarists
Port Ludlow	27 USCG Auxiliarists
Sequim	30 USCG Auxiliarists

Provided an oil spill prevention presentation at the invitation of the Island County Marine Resources Committee. (30+ participants)

Provided a presentation to the 35 Island County Beachwatchers in Coupeville, WA, in March 2005. Offered numerous ways to identify spill-prone operations and to prevent oil pollution from small commercial and recreational vessels. Also provided a candid assessment of volunteer participation in spill response, covering needs, capabilities and training requirements.

Provided an oil spill prevention class to special needs students at the Sequim Middle School. Followed up on this initial contact to promote this group's Fuel Spill Prevention Project. Arranged to have class offer a presentation at the PCC Harbormasters conference in LaConner where they were awarded a \$1000 grant in recognition of their significant efforts in eliminating fuel spills at marinas.

Provided article on class efforts for SG SeaStar publication and prepared total revision of their Fuel Spill brochure.

Provided three classroom sessions on oil spill prevention to 5 groups of fourth graders at the annual Kitsap County Water Festival in April 2005.

Participated in career day at Oak Harbor High School. Gave three presentations in futile attempt to enlighten students regarding the benefits and personal rewards of promoting environment stewardship. Hard to compete with the guys in the flight suits and those promising careers in fighter jets and aboard submarines!

Met with UW capstone students to offer information on project relating to the environmental impact of eco-tour boats in Puget Sound area.

Participated in spill prevention workshop for 22 fishermen and fleet owners at Nordby Center, Fishermen's Terminal, Seattle.

Attended and participated in a number of oil spill related events that provided opportunities to connect with other pollution prevention organizations:

- People for Puget Sound, "Troubled Waters" (spoke with Kathi Fletcher)
- NMTA/WPPA Marina Conference (spoke with Brad Ack, PSAT)

Visited the following larger fleet-owned fishing vessels to offer spill prevention, notification and preparedness information:

American Triumph	Stellar Sea
Highland Light	Northern Express

Provided oil spill prevention materials (handouts, spill kits, signage) to numerous marinas, including:

LaConner Marina	Port of Port Townsend
Oak Harbor Marina	Neah Bay Marina
Port of Seattle	Port of Bellingham
Port of Tacoma	Port of Astoria

Prepared input, abstracts and papers for PSGB Research 2004 and IOSC 2005 and SG one-pager.

Represented WSGP at Sea Grant marina workshop held in Narragansett, RI. Played major role in crafting SG theme team initiative aimed at analyzing the effectiveness of promoted Best Management Practices for marinas.

Spill prevention educational message circulated in Marine Yellow pages reached over 15,000 vessel operators and other marine industry representatives throughout the Pacific Northwest.

Professional Development and Miscellaneous

Presented with the "Made A Difference" award at the PCC conference for my efforts in "increasing the knowledge and promoting the professionalism of the industry and in helping create a training vehicle for PCC members."

Completed extensive coursework in oil spill prevention, preparedness and response during off-hours and annual leave to qualify for advanced Incident Response Commander certification. This training has undoubtedly increased my professional stature and recognition within industry as evidenced by an expansion of program spill prevention audiences. These efforts have provided new opportunities for offering spill prevention training and in gaining a fuller understanding of the roles of regulators and industry in eliminating spill-prone operations.

Received GIS Introductory and Application Course certification to enable consideration of GIS use in tracking frequency and causes of small oil spills.

Initiated Hurricane Katrina relief project that has proven to have profound impact on fishermen and marina operators throughout coastal Louisiana.